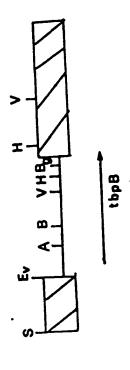


Plasmid 10



Plasmid 482

tbpB

	10	20	30	40	50 l
1	CGCTTGCAGA	TTTGTAAAAA	ATTTAGCTAA	AATCAGACCT	GGCTTGTATT
51	TTAGGGTTAT	TATGGAACAG	ACAACGGAAC	AAATAGATTA	TAAATTATTA
101	AAGCATCGTT	TTCGTGGCTA	TTTACCGCTT	GTGATTGATG	TGGAACAGAG
151	GCTTAAATGC	CCAAACTGTG	CCTTATTGGA	ATTGGCCGGA	ATTACTTTAA
201	AATTGGACGA	GCCAAGGTTA	TCTTATTGCC	GGATTCAACA	ATGCCAATTT
					AATATTTACC
301					TCTAGAGGAA
351	•				AATGGTTCGC
					GTTGCCCCAC
			*		TTAAACGGAA
			•		GACTACCGCC
	•	*			CGTTAAAAGC
					GAATTGGGT
					C ATATCGAATT
					r tattagtggc
					A ATGATGCGAT
					G GGGATCGGTA
					C CACTGTCATT
90					T GGGTTCATCG
					T GCGGAAAGCI
					G TATTGAACAT
					T ACAAATTĊG

1101 ATTGATTCCA CAATGTTCAA AGATGCGTAT GCTTTACTTA AAGCAGAAGA 1151 TGGCGAATAC TGTTCAAGTA GATATCATGA AAAAGAGTGC TTATATTCAA 1201 TTTTTTTTT TTTATTTAAT TTCTTTCCAC AAAAGATCAT TTTCAATTAT 1251 ATATACTGGA ATTTTGCCTT ACGCTATCTG TCATTTATTA TGCTATTCAA 1301 GCACAACAAA CTATGGAACA ACAATCAAAA TGTACGCTTA TCGGCTGCCG 1351 ATGATTTCGA TAATGATCGA TGTGCAGAAA TATTTGAACT TACGATTTTC 1401 ACTGAGCAGT CAAAGCACGT TCGCGAGTAT CGACTCTACT TTATTTATCG 1451 TITGTGCACT ATGTATAATC CACCTAATTC CGTGCCTTGG CCATAAAAGC 1501 CCCCTTCAAA TTGTATTTAT ATCAGCTACC GTGCCACCAT TCGTACTTTT 1551 CGGATCAAGA TTAAAACAGA ATCCCTGCAT GCACAGCGAA ATCAGCTGCG 1601 GTATGCGAAA CGCCGCAGGA GCGCAGTACG CGAAGTGTAC CGTCACTATC 1651 AGTGCTAGAT TTGTCAATAA AAAATTAGTG ACCAAGCTTG GGTGCATAAT 1701 GATGGTGATG AAAGAACGCT CAATGCTTGA CACGTTGCAG GCTATCTGTA 1751 AGGGTATGGT AGTTACAGGC ACAGCCCAAA CGGCCAATTG CTGGTTTTTT 1801 ATCCTTGATC CGAACAGTAC GAATGGTGGT CACGGTAGTG CATATACATA 1851 CTCAATTGAA GGGGGCTTTT ATGGCCCTAA GGCGACGGAA TTAGGTGGTA 1901 TTGTACATAG TGCAGAAACG GATAAAGATA GAGTCAGTAT TACATTCGGC 1951 GGAAAACGTC AAATAGAAAA ATAATCATAA TTCCCCTTTG CTGGTTGTAG 2001 ATAGCAGCGG GCAATTTTTT ATAAAAATTT GCAAAATTTA AATAA

tbpA

50 40 30 20 10 1 AGACCCTATC TAATGATAAT GAAATATCAT CATTTTCGCT ATTCACCTGT 51 TGCCTTAACA GTGTTATTTG CTCTTTCTCA TTCATACGGT GCTGCGACTG 101 AAAATAAAAA AATCGAAGAA AATAACGATC TAGCTGTTCT GGATGAAGTT 151 ATTGTGACAG AGAGCCATTA TGCTCACGAA CGTCAAAACG AAGTAACTGG 201 CTTGGGGAAA GTAGTGAAAA ATTATCACGA AATGAGTAAA AATCAAATTC 251 TTGGTATTCG TGATTTAACT CGCTATGACC CTGGTATTTC GGTGGTGGAA 301 CAAGGTCGCG GTGCAAGTAG TGGCTATGCC ATTCGAGGTG TAGATAAAAA 351 CCGTGTCAGC TTACTTGTTG ATGGGCTACC ACCAGCGCAC AGTTATCATA 401 CGCTGGTTCA GATGCTAATG GTGGTGCAAT TAATGAGATT GAGTATGAAA 451 ACATTCGTTC AATTGAGTTA AGCAAAGGAG CAAGTTCTGC GGAATATGGC 501 TCTGGTGCGC ATGGTGGTGC TATTGGTTTT CGTACTAAAG ATCGCCAGGA 551 TATTATTAAA GAGGGCAGC ATTGGGGCTT ACATAGTAAG ACCTCTTATG 601 CCAGCAAAAA TAGCCATTTT TACAGTCTAT CGCAGCGGCT GGTCAGGCGG 651 GTGGTTTTCA AGCACTTGTT ATTGCAACTC ACCGACACGG TAAAGAGACC 701 AAAATTCATT CCGAGGCAAA TCAATTACAT ATTATTCGGC GTATAACCGG 751 CTTTCAAAAT CGCTACGACT TTACCCAATT CCGCACAGAA TGCCTCCTGG 801 AGGATCTTTT TTTATTGTGG AAGATACTTG CCCAACATTA GATTGTACTC 851 CTCGTGCAAG GGTTAAGTTG AACGCGATAA TTTCCCAGTC AGAACATTTC 901 CGAATATACG CCTGGAAGAG GCGAAACAGC TTGAGATTCC TTATCGCACT 951 GAGCTCTCAG CCCAAAGAAT ARACCGGTAA AGATCGCATT GCACCAAACC 1001 CTTTAGATTA CAAGAGTAAT TCTGTTTTTA TGAAGTTTGG CTATCACTTT 1051 ACCTCGTCTC ATTATCTTGG CGCATCTCAC AAGATGATAC AAAACAĄCGC 1101 ACGATATCCG TCATSTGCAA ACGCCAGCTT ACTATACAAA AGACGATATT 1151 TACTTATCAC TITGGAACTA TGTTTATCAA GGGGATATTA TTTAGATGGC 1201 TTAGTGTTCA AGCCAAGGAT CCCTTATGGG TTGCGCATAT GCCATGTGAA

1251	CGTCACCACA	AACGTCGTTT	AGGATTCACC	TATAAATATA	AACCAGAGAA
1301	TAATCGCTGG	TTGGATAGCA	TTAACTCGTG	CGTACGTGCT	TTGCGCTCTC
1351	GCTGCTGTGC	TCTGAGTAAA	CAAGATATTG	AACTATATAG	CCGGCTACAT
1401	CGCTTGCATT	GTAGCGATTA	TCCTGTGGTA	GATAAAAATT	GCGGCCCGAC
1451	TTTGGATAAA	TCTGGTCTAT	GTATCGAACT	GAGCGTAATA	ATTACCAAGA
1501	AAAGCATCGT	GTCATTCATT	TAGAATTTGA	TAAAGCGCTA	AATGCTGGTC
1551	AAGGCGTATT	TAAGCAAACC	CACAAACTGA	ATTTAGGCTT	GGGCTTTGAA
1601	TCGATTAATC	GCTTATGATC	ATGGGGATAT	GACTGCCCAA	TATACCAAAG
1651	GCCGGTTATA	CCAGCTACCG	CGGAGAGGGG	CTTTAGATAA	TCCATATATT
1701	TATCGCCGCG	ATCCACGCAG	TATTGAAACG	GTATCTTTGT	GTAATAATAC
1751	AGCGGCGACA	CTTAACTGTG	ACGCGTTAAA	TAAAGGCATA	CGTTTGTACC
					ATTTAGATGG
					GATATGCCAT
1901	GTGAAGTTTT	TGATGAACG	CACCACAAAC	GTCGTTTAGG	ATTCACACCT
1951	ATAAATATAT	r AAACCAGAGI	ATAATCGCTC	GTTGGATAGO	ATTAACTCGT
2001	L GCGTACGTG	TITGCGCTC	r cgctgctgt	CTGTGAGTTA	AACAAGATAT
205	L TGAAACTTA	r agccggcta	C ATCGCTTGC	A TTGTGAGCGA	A TTATCCTGTG
210	1 GTAGTAGTA	A AAATTGCGG	C CCGACTTTG	G ATAAATCTT	GTCTATGTAT
215	1 CGAACTGAG	C GTAATAATT	A CCAAGAAAA	G CATCGTGTC	A TTCATTTAGA
220	1 ATTTGATAA	A GCGCTAAAT	G CTGGTCAAG	G CGTATTTAA	G CAAACCCACA
					T TATGGATCAT
230	1 GGGGATATG	A CTGCCCAAT	A TACCAAAGG	C CGGTTATAC	C AGCTAACCGC
235	1 GAGAGGGCG	T TTAGATAAT	C CATATTTAT	C GCCGCGATC	C ACGCAGTATT
					A CTGTGACGCG
245	1 TTAAATAAA	G GCATACGTI	T GTACCTCCG	C TGCTGCCTA	A TAAATCAAAA
250	1 GAATAACCG	A GATACGGTT	C AGTGTTGTT	C CAACCAGTT	G CGATGGCCCA

2551 CTACGTGAAC CATCACCCTA ATCAAGTTT TTGGGGTCGA GGTGCCGTAA
2601 AGCACTTAAC CCTTCTGTCG TCTCCCGTGG ATGCTTAAAT TCGCAGCTAG

2651 TGGCAGGCAG GCACGTCACT CCTCTCGGTG ATTTCAGGTG CAACTGACCG

2701 GTTCTTGGTA CCACCCTTGA TATTAACCGG AGTCAATTAT AAAAACGAGT

2751 TACGTGGAGC GCAATTTATA ATGTCGATGT CAGATACTGT AAAACTCTAT

2801 ATTACCGTGG GCAGCAATTA GGTGACAGGG CCACGGGGCA AGCGAAACCA

2851 GACGGGTACC AATTACACCG ATTTGCCGCC CCCGGGAGAG AAATTTCAGT

2901 TACCATTCAA AGAAGTTTAG AGCCGGCCAA AAGAAAATAC AAAAAACGCT

2951 GAAAGTATAT TCAGCGCGTT TTTGTTGCTC TAACGGATTA CATACGAATT

D8753750.11E996

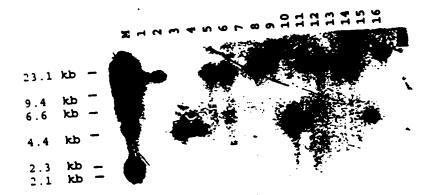
# FIGURE 4

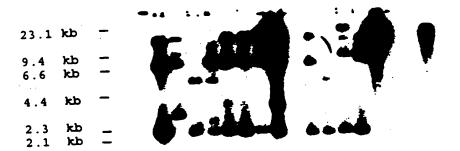
PRTBPB	NGTBPB
CGCTTGCAGATTTTGTAAAAATTTAGCTAAAATCAGACCTGGCTTGTATTTTAGGGTTATTAATG	TITAAAAATAAATAATAATCCITATCAITCTITAATIGAATCGGGITTGTTATG 

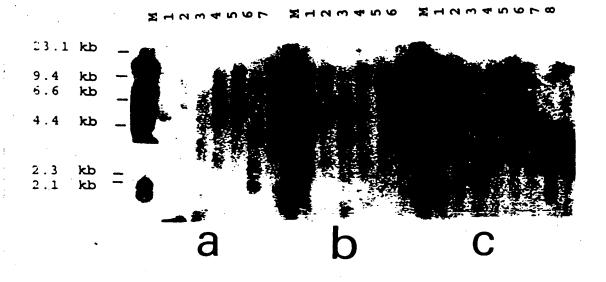
MATERIA

-35

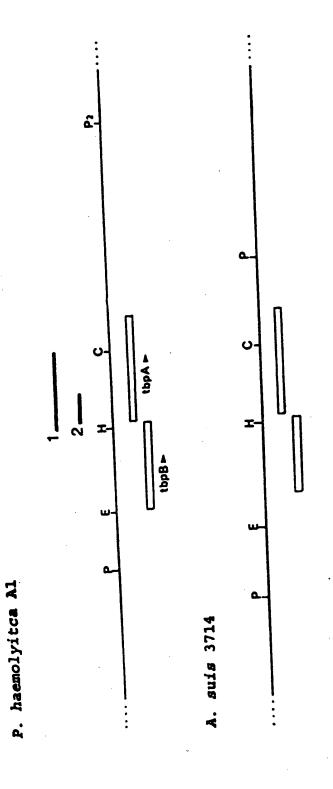
ţ

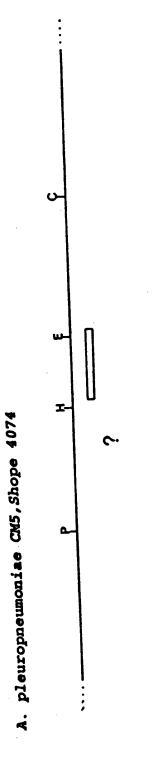






í



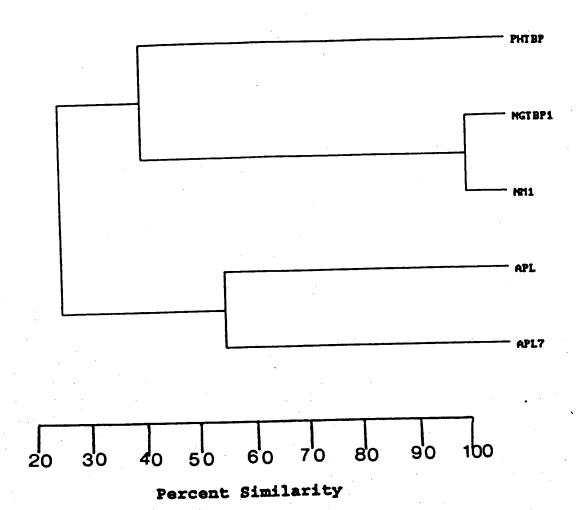


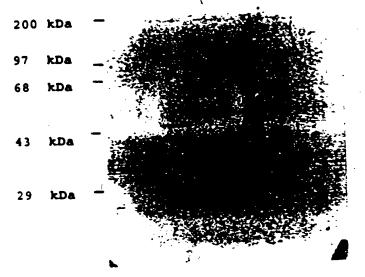
2kb

	TO A CHANGE & TRANSPIRATION OF THE STATE OF	50
PHTBP	MIMKYHHPRYSTVALTVLFALSHSYGAATENKKIEENNDLAVLDEVIVTE	44
NGTBP1	MIMKYHHPRYSTVALTVLFALSHSIANANYQAGQAQEKQLDTIQVKA MQQQ-HLFRLNILCLSLMTALP-AYAENVQARQAQEKQLDTIQVKA	44
NM1		
MAT	MOQQ-HLFRINITCISIATALE	
	CTEDITEYDEGISVVEOGRG	100
PHTBP	SHYAHERONEVTGLGKVVKNYHEMSKNOILGIRDLTRYDPGISVVEQGRG	94
NGTBP1	SHYAHERQNEVTGLGKVVKNYHEMSKNQITATIRDLTRYDPGIAVVEQGRG KKQKTRRDNEVTGLGKLVKTADTLSKEQVLDIRDLTRYDPGIAVVEQGRG	94
	KKOKTRONEVTGLGKLVKTADTLSKBOVLNIRDLTRYDPGIAVVEQGRG KKOKTRONEVTGLGKLVKSSDTLSKEQVLNIRDLTRYDPGIAVVEQGRG	
NM1	KKOKTRONEVTGLGKLVKSSDILSKBOVILS	
		144
PHTBP	ASSGYAIRGVDKNRVSLLVDGLPQAHSYHTLSGDANGGAINBIB	144
NGTBP1	ASSGYAIRGVDKNRVSLLVDGLPQARSITAQAALGGTRTAGSSGAINBIB ASSGYSIRGMDKNRVSLTVDGLAQIQSYTAQAALGGTRTAGSSGAINBIB	144
	ASSGYSIRGMDKNRVSLTVDGLAQIQSITAQAALGGTRTAGSSGAINBIB ASSGYSIRGMDKNRVSLTVDGVSQIQSYTAQAALGGTRTAGSSGAINBIB	_
NM1	ASSGYSIRGMDKNRVSLTVDGVSQIQSIIAQAAAAS	
	A CONTRACTOR OF THE CONTRACTOR	194
O CAMERO D	YENIRSIELSKGASSABYGSGAHGGAIGFRTKDAQDIIKEGQHWGLDSKT	194
PHTBP	YENIRSIELSKGASSABYGSGAHAGATOFKTADDVIGEGROWGIQSKT YENVKAVEISKGSNSVEGGSGALAGSVAFOTKTAADIIGEGKOWGIQSKT	194
NGTBP1	YENVKAVEISKGSNSVEGGSGALAGSVAFOTKTAADIIGEGKOWGIQSKT YENVKAVEISKGSNSSEYGNGALAGSVAFOTKTAADIIGEGKOWGIQSKT	
NM1	YENVKAVEISKGSNSSEYGNGALAGSVAFOIRIAABETTA	
		243
	Syasknshflo-Iaaagbaggfbalviathrhgkbtkihsbanklkhnir	244
PHTBP	SYASKNSHFLQ-IAAAGBAGGFBALU IXTTGRHAGBIRAHBAAGRGVQSFN AYSGKNRGLTQSIALAGRIGGABALLIRTGRHAGBIRAHKDAGKGVQSFN	244
NGTBP1	AYSGKNRGLTQSIALAGRIGGARALLIYTKRRGRBIHAHKDAGKGVQSFN AYSGKDHALTQSLALAGRSGGABALLIYTKRRGRBIHAHKDAGKGVQSFN	
NM1	AISGRALE TO THE TENT OF THE TE	
	AYSGKDHALTQSLALAGRSGGAEALLIYTKRRGREIHAAADAGRGVQSTA	290
	RITGFENRYDFTQIPHRMPPGGSFFIVEDTCPTLDCTPRARVKLNRD	279
PHTBP	RITGFENRYDFTQIPHRMPFGGSFFIVEBECKNGGHB-KCKANPKKD RLAPVDDGSKYAYFIVEBECKNGGHB-KCKANPKKD	282
NGTBP1	RLAPVDDGSKYAYFIVEBECHNG-YA-ACKNKLKED RLVLDEDKKEGGSQYRYFIVEBECHNG-YA-ACKNKLKED	
NM1	KLAMBOKKO ** **** *	
	RLVLDEDKKBGGSQYRYPIVBEBCHNG-IX-ACKARARAS	340
nump D	NPPVRTPPBYTPBBRRADULFIRE DATE DATE DATE ADDISYESRSW	312
PHTBP	NPPVRTPPBYTPBERNAEQIPYRTEQLSAQBKIGADARFLADPLSYESRSW VVGEDKRQTVSTRDYTGPNRFLADPLBYGSQSW	315
NGTBP1	VVGEDKRQTVSTRDYTGSNRLLANPLEYGSQSW ASVKDERKTVSTQDYTGSNRLLANPLEYGSQSW	
NM1	ASVKDERKT	•
	TOTAL TRANSPORTING TO THE THIRTY HIGH	388
nump D	PMKPGYHFNSS-HYLGAILEDTKQR-TISVICKRQLTIQKTILTYHLGTM	362
PHTBP	PMKFGYHFNSS-HYLGALLENTKOK-113-MIVPAFLTKAVFDANQKQAG LFRPGFRFENKRHYIGGILERTQQTFDTRDMIVPAYFTSEDYVPG	359
NGTBP1	LFRPGFRFENKRHYIGGILERTQQTFDTRDMTVPAYFTSEDYVPG LFRPGWHLDN-RHYVGAVLERTQQTFDTRDMTVPAYFTSEDYVPG	
NM1	LFRPGWHLDN-RHYVGAVLBRIQUID	
	DEPHHKRRIGE	426
D. WILLIAM	FMKGIIFRWLSVQAK-DPLWVAHMPCBVDBRHHKRRLGF	412
PHTBP	FMKGIIFRWLSVQAK-DPLWVAHMPCBV SLRGNGNHKYAGNHKYGGLFTSGENNAPVGABYGTGVFYDBTHTKNRYGV	407
NGTBP1	CI.KGIGKYSGDNKAEKLFVQGEGSIDQGIOTO	
NM1		
	CONTRIVERING HELICSDYP	475
กษาการ	TYKY-KPENNRWLDSINSCVRALRSRCCALSAQDIBUIDAHFQQTHCSA-D BYVYTNADKDTWADYARLSYDROGIDLDNRLQQTHCSH-D	451
PHTBP NGTBP1	RYVYTNADKDIWADYARLSIDROGIGLDKIM VOTHCSH-D	446
•••	SUBSTITUTE OF THE STATE OF THE	
NM1	RIALUMONO	
	VVDKNCGPTLDKSWSMYRTERNNYQEKHRVIHLEFDLALNAGQGVFLQTH	525
DIMED D	VVDKNCGPTLDKSWSMYRTERNNYQBKHRVIRDBFDDAMISIRH	497
PHTBP	VVDKNCGPTLDKSWSMYRTBRNNYQBKHKVIADAPKKSFDTAKIRH GSDKYCRPSADKPFSYYKSDRVIYGBSHKLLQAAPKKSFDTAKIRH	492
NGTBP1	GSDKYCRPSADKPFSYYKSDRVIYGBSHKLLDAAVFKKAFDTAKIRH GSDKNCRPDGNKPYSFYKSDRMIYBBSRNLFQAVFKKAFDTAKIRH	
NM1		i
	CDI VOI DPPDPRSIWTVSLCN	2ל'5
PHTBP:	KLNLGLGFBSINSLMDHGDMTAQYTLGKLIQL	546
	KLNLGLGFBSINSLMDHGDMTAQYTLGRLIQL KLNLGLGFBSINSLMDHGDMTAQYTLGRLIQL NLSVNLGYDRFGSNLRHQDYYYQSAN-RAYSLKTPPQNNGKKTSPNGRBK NLSVNLGYDRFGSNLRHQDYYYQSAN-RAYSLKTPPQNNGKKTSPNGRBK	537
NGTBP1		
NM1	NLSINIGIDARAGEDING	

•		NTRATLNCDAL-NLGIRLYLRCCLINQLNNPRYGSVLPQFGTRV	615
	PHTBP	NTRATLNCDAL-NLGIRLYLRCCLINQLNNPRIGSON-RDNVRL NPYWVSIGRGNVVTRQICLFGNNTYTDCTPRNIGGNGYYAAVQDNVRL	594
	NGTBP1	MOVING IGRGNATIVATED COMMAND	585
	NM1	NPYWVSIGRGNVVTROICLFGNNTYTDCTPRSINGKSTYAAVQDNVRL NPYRVSIGKTTVNTSPICRFGNNTYTDCTPRNIGGNGYYAAVQDNVRL	
	MAIT		659
		TO THE WAY WANTED NOVEWORGAVKHLTLLSS	637
	PHTBP	HRTWTPTSLGELPSIRAMAHYVNHHPNQVFWGRGAVKHLTLLSS GR-WADVGAGLRYDYRSTHSDDGSVSTGTHRTLSWNAGIVLKPF	628
	NGTBP1	GR-WADVGAG	•==
	NM1	GR-WADVGAGIRYDYRSTHSEDRO	
		YV	702
		PWM-LKPAASGRHVTLSVISG-ATDRPLVPPLILTGVNYKNESYV	687
	PHTBP	PWM-LKPAASGRHVTLSVISG-ATDRPLVPPLILIGVRIKEAGIVFK DWLDLTYRTSTGFRLPSFABMYGWRSGDKIKAVKIDPBKSFNKEAGIVFK	678
	NGTBP1	DWLDLTYRTSTGFRLPSFAEMYGWRSGDKIKAVKIDPERSFREAGIVFK TWMDLTYRASTGFRLPSFAEMYGWRAGESLKTLDLKPEKSFNREAGIVFK	
	NM1		-43
			742
	PHTBP	SAIYNVDVRYCKTLYYRGQQLGDRXXXGNP-AYLNAQSARIT	736 727
	NGTBP1	CDECNT.RASWINNAINDELT TO COMPANY CONDECARNAUNARIA	121
	NM1	ANDAM ENCYPNIAL COLORS	
Similar County C			770
74.		APG	786
U1	PHTBP	APG	777
	NGTBP1	GINILGKIDWNGVWDKLPEGWYSTFAYNRVRVRDIRRADRTFVTSYLFD GINILGKIDWHGVWGGLPDGLYSTLAYNRIKVKDADIRADRTFVTSYLFD	
	NM1	GINILGKIDWHGVWGGLPDGLYSTLAYNRIKVRLADIR	
			815
		AFFVGSNGLHTNSKSCFNGRLHEPIPYFFNFLRNVPRFNEYHCCC	827
==-: =	PHTBP	AFFVGSNGLHTNSKSCFNGRLHBPIPYFFNFLRNVITELLGSR AIQPSRYVVGSGYDQPBGKNGVNGMLTYSKAKSVDBLLGSQ	818
į.	NGTBP1	AIQPSRYVVGSGYDQPEGKWGVNGMLTISKAKSVDELLGSQ AVQPSRYVLGLGYDHPDGIWGINTMFTYSKAKSVDELLGSQ	• • • • • • • • • • • • • • • • • • • •
<b>.</b>	NM1	AAGESKA TOOLS	
F# E		THE	863
	PHTBP	TSLIAASILLHHIYHWVFDFRYYYFVYFCWILHHLIHINSFLMLLSHY -ALLNGNSRNTKATARRTR PHYYIVDVSGYYTVKKHFTLRAGVYNLLNHRY -ALLNGNSRNTKATARRTR PHYYTTNYSGYYNIKKHLTLRAGVYNLLNYRY	876
₩.	NGTBP1	-ALLNGNSRNTKATARRIRENTITUTO CONTENTENTITUTO AGGINALLINYRY	867
1	NM1	-ALLNGNANAKKAASKRIKPWI VIDVS	•
		REVVYLTCCACAFNIVTVNGFCVGCCSNILAEMKF 898	
	PHTBP	REVVYLTCCACAFNIVTVNGFREVVYLTCCACAFNIVTVNGFYNRYAAPGRNYTFSLEMKF 917 VTWENVRQTAAGAVNQHKNVGVVNRYAAPGRNYTFSLEMKF 908	
	NGTBP1		
	NM1	ALMENAKOTAGGAANAMA	

PHTBP1	MIMKYHHFRYSTVALTVLFALSHSYGAATENKKIBENNDLAVLDEVIVTE MHFKLNPYALAFTSLFLVACSGGKGSFDLEDVRPNK	50 36 36
apl apl7	MHPKLMPYALAPISLPDAACSGSAGGS	
~-		
	SHYAHERQNEVIGLGKVVKNYHEMSKNQILGIRDLTRYDPGISVVE	96
PHTBP1	SHYAHERQNEVIGLGKVVKNYHEMSKNILGYETQILLRRNKAPKTETG TAKAEKATTSYQDBETKKKTKBELDKLMEPALGYEVQIVPVSSFE	86
APL		78
APL7	TARABKATTSYQDBBTKKKTKBELDKIABPALGIBTQT	
	QGRGASSGYAIRGVDKNRVSLLVDGLPQAHSYHTLSGDANGGAINBI-BY	145
PHTBP1	QGRGASSGYAIRGVDKNRVSLLVDGLFQAKSIRT EKRNERVVELSEDKITKLYQESVEIIPHLDELNGKTTSNDVYHS EKRNERVVELSEDKITKLYQESVEIIPHLDELNGKTTSNDVYHS IKVITNGNLDDVPYKANSSK-YNY	130
APL	EKRNERVVELSEDKITKLYQESVEITPE	109
APL7	NKKVDISD	
	• •	185
	ENIRSIELSKGASSAEYGSGAHGGAIGFRTKDAQ-DIIKEG	
PHTBP1	Enirsielskgassaeygsgahggaigyktkuasgfhvfkqgidgyvyylg HDskrldknrdlkyvrsgyvydgspheirrndsgfhvfkqgidgyvyykg	180
APL	HDSKRLDKNRDLKYVRSGYVYDGSFNEIRRNDSGFNVFNGG PDIKTKDSSLQYVRSGYVIDGEHSGSNEK	145
APL7	PDIKTKDSSLQIVKSGIVIDGEHISTORI	
		226
	QHWGLDSKTSYASKNSHFLQIAAAGEAGGFEALVIATHRH	225
PHTBP1	QHMGLDSKTSYASKNSHFLQIAAAGEAAGFEADVLATSITE VTPSKELPKGKVISYKGTWDFVSNINLERBIDGFDTSGDGKNVSATSITE VTPSKELPKGKVISYKGTWDFVSNANINNEBGRPNYLNDDYYTK	230
APL	VTPSKELPKGKVISYKGTWDFVSNINLEREIDGFDISGEGATTANDDYYTK NSPAKELPVNQLLTYTGSWDFTSNANLANEBGRPNYLNDDYYTK	189
APL7	NSPAKELPANQULITI I GSADE 1 STATE 1	
		272
	GKETKI-HSBANKLKHNIRRITGFENRYDFTQIPHRMPPGGSFFIVED	278
PHTBP1	GKETKI-HSBANKLKHNIRRITGFENRYDFINIKLTGSLYRMGYINRN TVNRDHKVGEKIGDNEVKGVAHRSEFAVDFDNKKLTGSLYRMGYINRN	
APL	TVNRDHKVGEKLGDNEVKGVAHSSEFAVDFURKALIGSELSD FIGKRVGLVSGDAKPAKHKYTSQFEVDFATKRATGKLSD	228
APL7	PIGKRVGLVSGDAKPARHATISVED	
	······································	320
	TCPTLDCTPRARVKLNRDNFPVRTFPBYTPBBRNABQIPYRTEQLSAQ KAQBVTKRYSIBADIAGNRFRGKAKABKAGDPIFT-DSNYLBGG KAQBVTKRYSIBADIAGNRFRGAATASDKNKGKGBSYNFFSADSQSLBGG	321
PHTBP1	TCPILLCIPRORY AGNRERG KARAKAGDPIP ADSOSLEGG	275
APL	TCPTLDCTPRAKVALIKATION AND AND AND AND AND AND AND AND AND AN	-
APL7	KEKTIYTVNADIRGNRFTGAATASDKNKGKGKSSINFI	
		370
	BKTGKORIAPNPLDYKSNSVFMKFGYHFNSSHYLGAILGDIATKIDLTQFN FYGPKABEMAGKFFTNNKSLFAVFAAKSENGETTTERIIDATKIDLTQFN FYGPKABEMAGKFFTNNKSLFAVFSAKENGSNVMTVRIIDASKIDLTNFS	371
PHTBP1		325
apl	PYGPKABEMAGKFFTNIKSLFAVFAAKSENGETTTERITDATKIDLTNIFS PYGPKABEMAGKFVANDKSLFAVFSAKENGSHVMTVRIIDASKIDLTNIFS PYGPKABEMAGKFVANDKSLFAVFSAKENGSHVMTVRIIDASKIDLTNIFS	
APL7	PYGPKABEMAGKFVANDKSLFAVFSAKENGSNVNIVKIIDE	
		418
	POLTI - OKTILTYHLGTMFMRGIIFKHLSVAVACCSNLE	421
PHTBP1	KroltiOktiltyhlgimfmrgiifrmlsvoakdplmvadal-Cenle Akelnnfgdasvliidgokidlagvnfknsktveingktmvavaccsnle Iselnnfgdasvliidgkkiklagsgftnkhtieingktmvavaccsnle	375
APL	TOPLANTEDASVLIIDGKKIKLAGSGFINKHIIB	
APL7		
		463
	HHKRRIGFTYKYKPENNRWIDSINSCVRALRSRCCALSKUDIENT HHKRRIGFTYKYKPENNRWIDSINSCVRALRSRCCALSKUDIENT YMKFGOLWQKEGKQQVKDNSLFLQGERTATDKMPKGGNYKYIGTMD	467
PHTBP1	HHKRRLGFTTKIKFER YMKFGOLWOKEGKOOVKDNSLFLOGERTATDKMPKGGNYKYIGTMD YMKFGOLWOQAEGGKPENNSLFLOGERTATDKMPKGGNYKYIGTMD	421
APL	VMKFGQLHQQABGGKPENNSDFDQGSK	
APL7		
		510
		517
PHTBP1		471
apl apl7	AOVSKENNWATADDDRKAGIRIE	
APL/	AQVSKENNWVATADDDRKAGYRTEFDVDFGRKHLSGRDFDAG	560
		564
PHTBP1	LKALNAGOGVPKOTHKLNIGLGFBSNLIRLTIIGIILPNIPKAGYTSYRG LKALNAGOGVPKOTHKLNIGLGFBSNLIRLTIIGIILPNIPKAGYTSYRG DATIN-GNGFIGSAKTSDBGFALDSGSSRYENVKFNDVAVSGGFYGPT	518
APL		219
APL7	DATIN-GNGFIGSAKTSDSGFALDAGSSQHGNAVFSDIKARGFIGPT DAKID-GNGFIGKAKTSDBGFALDSGSSRYENVKFNDVAVSGGFYGPT	•
APL/		
PHTBP1	RGRLDNPYIYRRDPRSIBTVSLCNNTRATLLLLRVNKGIRLLLR FGAKRQIBK 593 AGBLGGOFHHKSDNGSVGAV	
APL	RGRLDNPYTYRRDPRS183	
APL7	AABLGGOPHHKSENGSVGAV	
F-2 40 "	•	





M 1 2 3 45 6 7 8

200 kDa -

97 kDa -

68 kDa \_

43 kDa -

29 kDa -



Š

#### M 1 2 3 4 5 6 7 8

200 KDa -

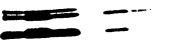
or kDa -

68 kDa

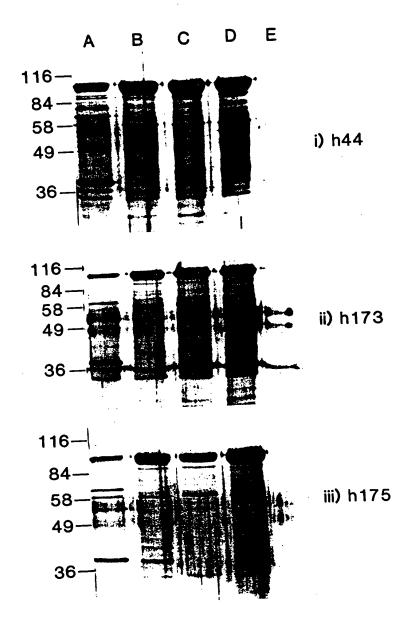
AS KDA -

an kDa

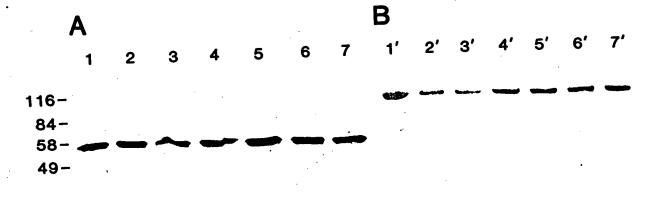


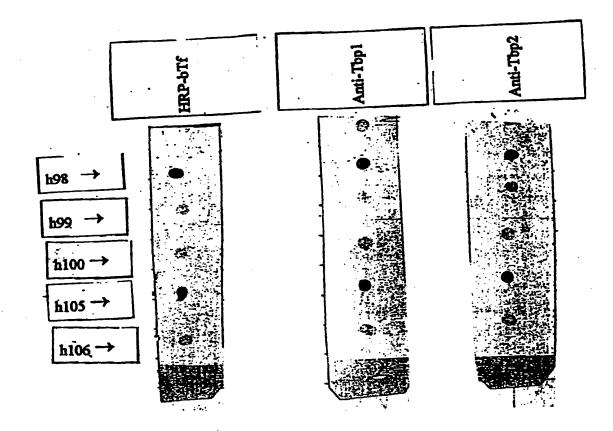


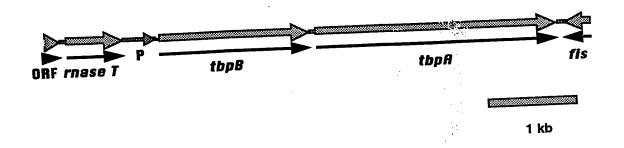
HRP- bTf	HRP- oTf	HRP- cTf	HRP- eTf
h173- •		•	
h174- ●		•	
h175- ூ	•	•	
h176- ●			•
h44 - •		•	
h50 -			



š





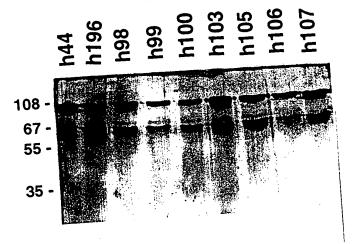


ATTTTTTTATCTAATCTAAAAACAAGCGTTTCCACCTTGGAAATGATTAACATGATC -35  ${\tt TTATTATTTTATAAA} \underline{{\tt TTAAAGGAG}} {\tt ACATT} \underline{{\tt ATG}} {\tt TTTAAAACTTAAAAGTAGTTTTGTA}$  $\mathtt{Met}_{1309}$ SD CTG.....tbpB....GAAAAA<u>TAA</u>TCATAATTCCCCTTTGCTGGTTGTAG  ${\tt ATAGCAAGCGGGCAATTTTTATAAAAATTTGCAAAATTTAA\underline{{\tt ATAAAGGAG}}{\tt ACCCT}}$ SC3063 ATCTAATGATAATGAAATATCATCATTTTCGC....tbpA.....AGAAA Met<sub>3151</sub>  ${\tt TTTCAGTTTAGCATTTGAAATGAAGTTT\underline{TAG}}.$ sc<sub>5943</sub>

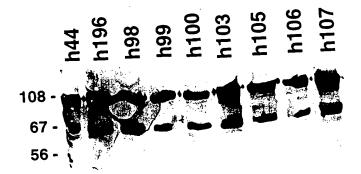
Hart dans Ar for the tent of the total 

ATGTTTAAACTTAAAAGTAGTTTTGTACTGCTTAATGCGGCGCTACTTGCTGCTTGTTCCT CAAATGGTGGAAGCTTTGATGTTCAATCTGCCAAAGTTGAATCTCAAACGCAAACTACCCC CAAAAAGCCAAGTITACAAGATGATAATAGTAACGCAAGACGTACAGTAAGCGCTTCTGAA ACTGAAGCTTTATTGCAGCCGGGTTTGGTTTTTCAGCCAAAATTCCGCGTCGTAATCTCC TTCCGCAGGGAAGAAGATGTAGCCCCTATTGGTGATATAAAAGAGATTACTGGAGATCT GCCAAAAATTCCGTATGAAGAAGAGGTTAAAGCGTGCGGTAGTAGTGCTGATGGATTTAGC ATGTTGTGCATTCTGGTCCAAAACCTGAAATAAAGCCTAAAGAAATTTTGAGAACAGGTGC ACTTATAAAGGATATTGGGATTTTACTACCTATGCGGCTAAGGGGAGAGATAGTAATATTT TICTAATTCCCGCAGGCATCAATAGTGGCGCCCATACCGGAAAATAGTCACGATATTAATGT TGATGATTCTGAAAAACCAATGGGGCATACAGGAGAATTTACGGCTGATTTTGCTAATAAA ACTTTAACTGGAACATTGGTTCGTAATGGGTATGTTAGTCGTAGCAAAGAGCAAAAAATTA CAACAATTTACGATATTGATGCGAAAATTAAAGGTAATCGCTTTTCTGGTAAAGCAAACCC AAAAAAACCGATGATCCTTATTTTTGGGAAAAGCTCCACGACACTTGAAGGTGGATTTTTT GGTGGGGAGGCTCAAGAACTTGCCGGTAAATTCTTAGCTGATGATAAGTCGGTATTTGTTG TTTTTGCTGGCACACGAGATGCTAAAAAAGATGATAGTGAATCTGCCTTTGATGCTTTCCC **AATTAAACTTAAAGATTTAAATAAATCTGAGATGGATACTTTCGGGAATGCGACACATTTG** ATTATTAACAATAAGCAGATTCCACTTATTGCGGAAGCCACAAAAAGCTTTGCCGAGATGA AATTTGATGATTTGGTTACCCGTACTATTGATGGAAAAACGTATCGAGTTTCAGTCTGCTG TAATAATTTAGATTATGTCAAATTTGGGATTTATAGCGAGGGAAATAATAGTGATACTGCT CTCCAAGAATATTTAGTAGGAGAACGTACAGCTCTGGCAGATTTGCCAACAGGGACAGTAA AATATCGAGGTACTTGGGACGGGTAATGTACAGTAAATCTGGCTCGGCAGGGGTTGAATC GCCAAGTAACAGCGAAAGTGGTACTCGTTCACTATTCGATGTAGATTTTGTCAATAAAAAA ATTAATGCCAAGCTGATTGCTAATGATGGTGTTGAAGAACGCCCAATGCTGACACTGGAAG GCAATCTGAAAGGGAATGGTTTTGGAGGCACAGCCAAAACGGGCAATTCTGGTTTTAATCT TGATCCCAAAAGTACGAATGGTGGCACGGTAGGGCATATAAATACTCAATTTGAAGGGGGC TTTTATGGCCCTAAGGCGACGGAATTAGGTGGTATTGTACAAAATACAGAAACGGATAAAG ATAGAGTCAGTATTACATTCGGCGGAAAACGTCAAATAGAAAAATAA

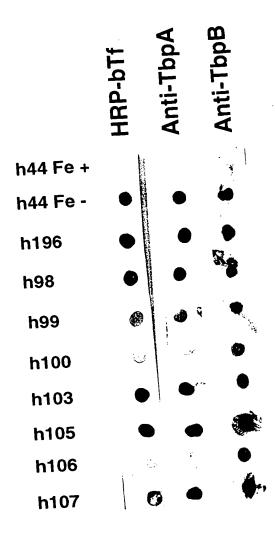
	HRP-bTf	HRP-oTf	HRP-gTf
h44 Fe +	•	<b>3</b>	•
h44 Fe -	•	•	•
h196	•	•	•
h98	•	•	•
h99	•	•	•
h100	•	•	•
h103		•	•
h105	•	Ø	*
h106	<b>6</b>	0	•
h107			•



A

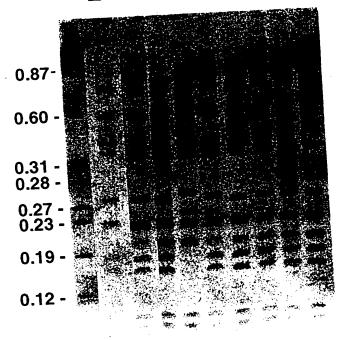


B



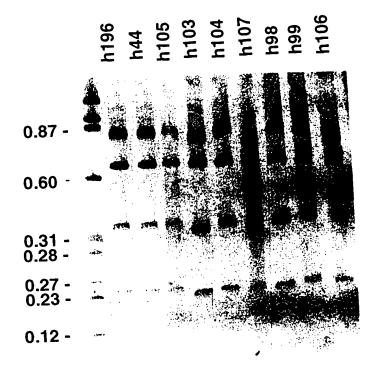
١

h196 h105 h103 h104 h107 h98 h99



A

B



h196 h100 h103 h104 h105 h105 h107 h174

1.3 - 🖛 0.6 -

h196 h99 h100 h104 h105 h106 h107 h174

B

